



Parallel lithium battery

??,? M1 Mac ??? x86 ?????????? ??? QEMU ??????????????????,????????????????? QEMU ??????? ...

??Parallel Old??? 1?Parallel Old?????????(?Parallel Scavenge) 2?Parallel Old????? Parallel Old?Parallel Scavenge?????????,?????????,????-????????

??????,????,SP+ZeRO2?????????????????(?????????Megatron Sequence
Parallel???,?TP-sp,Megatron-SP????????????? ...

??????,????,SP+ZeRO2?????????????????(?????????Megatron Sequence
Parallel???,?TP-sp,Megatron-SP????????????????,??????TP????,?SP????TP????)?

Parallel Scaling Law ??????????????,?????: ?????? N ?????? P ??,????????????? ($P^{\{1/\alpha\}} \cdot \text{Diversity}$)
? (??????)? ?? Diversity ?????????????????,????????

Parallel Scaling Law ??????????????,?????: ?????? N ?????? P ??,????????????? ($P^{\{1/\alpha\}} \cdot \text{Diversity}$)
? (?????? ...

?????????Chrome?????Edge,?? edge://flags,????????? Parallel downloading, ??Enable,????,?????
???,?Chromium?(??),????????????????????,?????????????

??,? M1 Mac ??? x86 ?????????? ??? QEMU ??????????????????,????????????????? QEMU
?????????????,?????? macOS ?????????????????,????????????????

?????????Chrome?????Edge,?? edge://flags,????????? Parallel downloading, ??Enable,????,?????
???,?Chromium? ...

Macbook Pro??Parallel desktop????,??????????????? MacBook Pro 2017??Parallel desktop?galgame,
????????????????????

??Parallel Old??? 1?Parallel Old?????????(?Parallel Scavenge) 2?Parallel Old????? Parallel Old?Parallel Scavenge?????????,?????????, ...

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